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WATER SUPPLY OUTLOOK FOR COLORADO AND NEW MEXICO



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

**COLORADO STATE UNIVERSITY EXPERIMENT STATION
STATE ENGINEER of COLORADO
and STATE ENGINEER of NEW MEXICO**

AS OF
MAY 1, 1978

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SOME OF THE DATA IN THIS REPORT HAVE BEEN RECEIVED THROUGH THE SOIL CONSERVATION SERVICE'S NEW SNOTEL SYSTEM WHICH TRANSMITS INFORMATION VIA THE SPACE AGED METEOR BURST METHOD FROM DATA SITES TO MASTER STATIONS LIKE THESE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR COLORADO AND NEW MEXICO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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WATERSHED II -ARKANSAS RIVER WATERSHED

Describes water supply conditions in Lake County, Upper Arkansas, Fremont, Custer County Divide, Fountain Valley, Black Squirrel, Horse-Rush Creek, Central Colorado, Turkey Creek, Pueblo, Bessemer, Olney Boone, Cheyenne, Upper Huerfano, Stonewall, Spanish Peaks, Purgatoire, Branson Trinchera, Western Baca, Southeastern Baca, Two Buttes, Bent, Timpas, Northeast Prowers, Prowers, Kiowa County, West Otero, East Otero, and Big Sandy Soil Conservation Districts.

WATERSHED III -RIO GRANDE WATERSHED (COLORADO)

Describes water supply conditions in Rio Grande, Center, Conejos, Mosca Hooper, Mt. Blanca, Sanchez, and Culebra Soil Conservation Districts.

WATERSHED IV -RIO GRANDE WATERSHED (NEW MEXICO)

Describes water supply conditions in Upper Chama, East Rio Arriba, Taos, Lindrith, Jemez, Santa Fe - Pojoaque, Sandoval, Tijeras, Cuba, and Edgewood Soil Conservation Districts.

WATERSHED V -DOLORES, SAN JUAN, AND ANIMAS RIVERS WATERSHED

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WATERSHED VI -GUNNISON RIVER WATERSHED

Describes water supply conditions in Delta, Gunnison, Cimarron, Shavano, and Uncompahgre Soil Conservation Districts.

WATERSHED VII -COLORADO RIVER WATERSHED

Describes water supply conditions in DeBeque, Plateau Valley, Lower Grand Valley, Bookcliff, Eagle County, Middle Park, Glade Park, Upper Grand Valley, South Side, and Mt. Sopris Soil Conservation Districts.

WATERSHED VIII -YAMPA, WHITE AND NORTH PLATTE RIVERS WATERSHED

Describes water supply conditions in Yampa, Moffat, West Routt, East Routt, North Park, White River, and Douglas Creek Soil Conservation Districts.

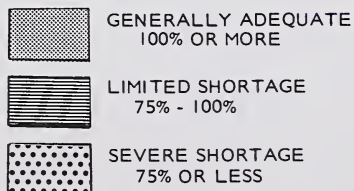
WATERSHED IX -LOWER SOUTH PLATTE RIVER WATERSHED

Describes water supply conditions in Sedgwick, South Platte, Haxton, Peetz, Padroni, Morgan, Rock Creek, and Yuma Soil Conservation Districts.

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WATER SUPPLY OUTLOOK

as of
MAY 1, 1978



The map on this page indicates the most probable water supply as of the date of this report. Estimates assume average conditions of snow fall, precipitation and other factors from this date to the end of the forecast period. As the season progresses accuracy of estimates improve. In addition to expected streamflow, reservoir storage, soil moisture in irrigated areas, and other factors are considered in estimating water supply. Estimates apply to irrigated areas along the main streams and may not indicate conditions on small tributaries.

WATER SUPPLY CONDITIONS

as of

MAY 1, 1978

SNOWPACK REMAINS HIGHLY VARIABLE ACROSS COLORADO AND INTO NEW MEXICO. AS A RESULT, STREAMFLOWS ARE EXPECTED TO ALSO BE HIGHLY VARIABLE. THE NORTHERN, CENTRAL, AND SOUTHWESTERN AREAS OF COLORADO EXHIBIT WELL ABOVE NORMAL SNOWPACKS. THE FRONT RANGE RECEIVED BELOW NORMAL AMOUNTS OF SNOW DURING APRIL WHICH RESULTED IN A DROP IN WATER SUPPLY FORECASTS FOR THAT AREA. ALL STREAMS IN COLORADO AND NEW MEXICO SHOULD PRODUCE NORMAL TO WELL ABOVE NORMAL WITH THE EXCEPTION OF THE RIO GRANDE AND TRIBUTARIES TO THE ARKANSAS RIVER WHERE FLOWS WILL BE 15 TO 20% BELOW THE NORM.



COLORADO -- APRIL BROUGHT INCREASES IN SNOW AT THE HIGHER ELEVATIONS BUT SNOWPACKS BEGAN MELTING AT LOW AND MEDIUM ELEVATIONS.

THE YAMPA AND WHITE RIVER DRAINAGES REMAIN THE HIGHEST IN THE STATE AND ARE EXPECTED TO FLOW 145% OF NORMAL. HEADWATERS OF THE COLORADO SHOULD PRODUCE WATER SUPPLIES 10 TO 25% GREATER THAN AVERAGE. THE FRONT RANGE RECEIVED DEFICIENT AMOUNTS OF SNOW DURING MARCH AND APRIL. FORECASTS OF STREAMFLOW IN THIS LOCALITY ARE NOW NEAR AVERAGE. THE RIO GRANDE BASIN AND TRIBUTARIES TO THE ARKANSAS WILL LIKELY FLOW 15 TO 20% BELOW NORMAL.



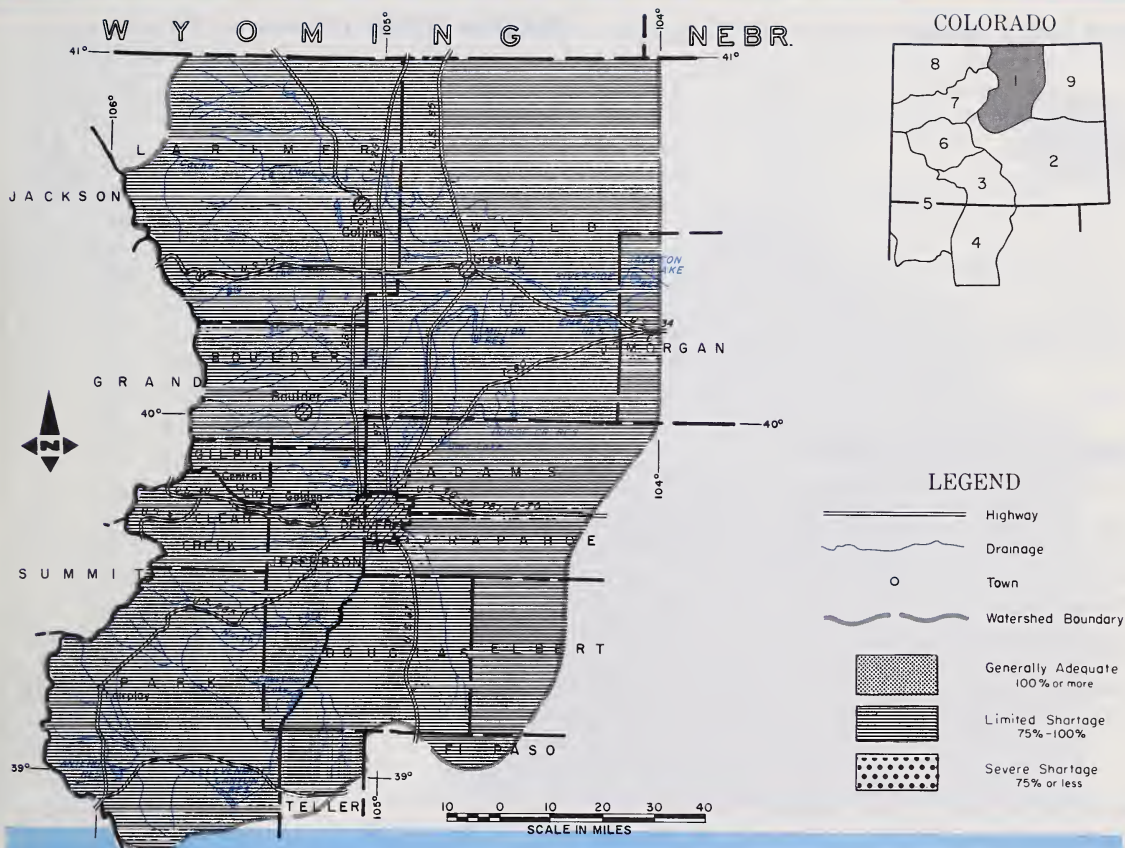
NEW MEXICO -- SNOWPACKS HAVE GENERALLY MELTED AT ALL BUT THE HIGHEST ELEVATIONS. FORECASTS OF STREAMFLOW HAVE BEEN CHANGED

ONLY SLIGHTLY FROM LAST MONTH. THE RIO GRANDE AND RIO CHAMA ARE EXPECTED TO FLOW BETWEEN 95 AND 105% OF NORMAL WHICH IS A SLIGHT REVISION DOWNWARD. MOST TRIBUTARY STREAMS SHOULD STILL PRODUCE NORMAL TO SLIGHTLY ABOVE WATER SUPPLIES. RAINS NEAR THE FIRST OF MAY IMPROVED SOIL MOISTURE. RESERVOIR STORAGE STATEWIDE REMAINS WELL BELOW NORMAL.

WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE SOUTH PLATTE RIVER WATERSHED IN COLORADO

as of
MAY 1, 1978

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



YOUR WATER SUPPLY

THE SNOWFALL DURING APRIL WAS SLIGHTLY BELOW NORMAL. THE PACK IS NOW JUST NORMAL ON ALL DRAINAGES. SOME DECREASE IN FLOW CAN BE EXPECTED BECAUSE OF THE SEVERE DROUGHT LAST YEAR. THE AMOUNT OF FLOW NECESSARY TO FILL THE SOIL MOISTURE VOIDS COULD BE CONSIDERABLE. CARRYOVER STORAGE IS 75% OF NORMAL. THE EARLY MAY STORM HAS NOT BEEN CONSIDERED IN THE SNOWPACK NOR VALLEY SOIL MOISTURE. THIS STORM MATERIALLY IMPROVED VALLEY SOIL MOISTURE.

This report prepared by

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STREAMFLOW FORECASTS (1000 Ac. Ft.) April—September

FORECAST POINT	FORE-CAST	% of Average	Average *
Big Thompson River at Drake (1)	105	98	107
Boulder Creek at Orodell	50	102	49
Cache La Poudre River at Canyon Mouth (2)	235	95	247
Clear Creek at Golden (3)	125	98	127
St. Vrain Creek at Lyons	75	100	75

(1) Observed flow plus by-pass to power plants. (2) Observed flow minus trans-basin diversions plus municipal and irrigation diversions. (3) Observed flow minus diversion through August F. Gumlick Tunnel.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Bear Creek	Avg.	Fair
Coal Creek	Avg.	Fair
North Fork of South Platte	Avg.	Fair
North Fork of Cache La Poudre	Avg.	Fair
Ralston Creek	Avg.	Fair
Rock Creek	Avg.	Fair

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average *
Big Thompson	5	308	95
Boulder	3	249	105
Cache La Poudre	7	229	99
Clear Creek	5	185	107
Saint Vrain	2	293	51
South Platte	3	202	99

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average *
Antero	16	15	16	14
Barr Lake	32	22	28	26
Black Hollow	8	3	4	4
Boyd Lake	44	16	34	38
Cache La Poudre	10	8	0	9
Carter Lake	109	96	106	99
Chambers Lake	9	4	1	4
Cheesman	79	30	34	60
Cobb Lake	34	0	5	15
Eleven Mile	98	83	90	89
Fossil Creek	12	7	10	8
Gross	43	15	23	23
Halligan	6	1	5	6
Horsetooth	144	59	99	121
Lake Loveland	14	9	9	10
Lone Tree	9	7	5	8
Mariano	5	5	5	5
Marshall	10	3	5	6
Marston	17	16	17	16
Milton	24	13	20	15
Standley	42	23	31	20
Terry	8	6	6	6
Union	13	10	13	10
Windsor	19	9	11	13

* 1958-1972 period.

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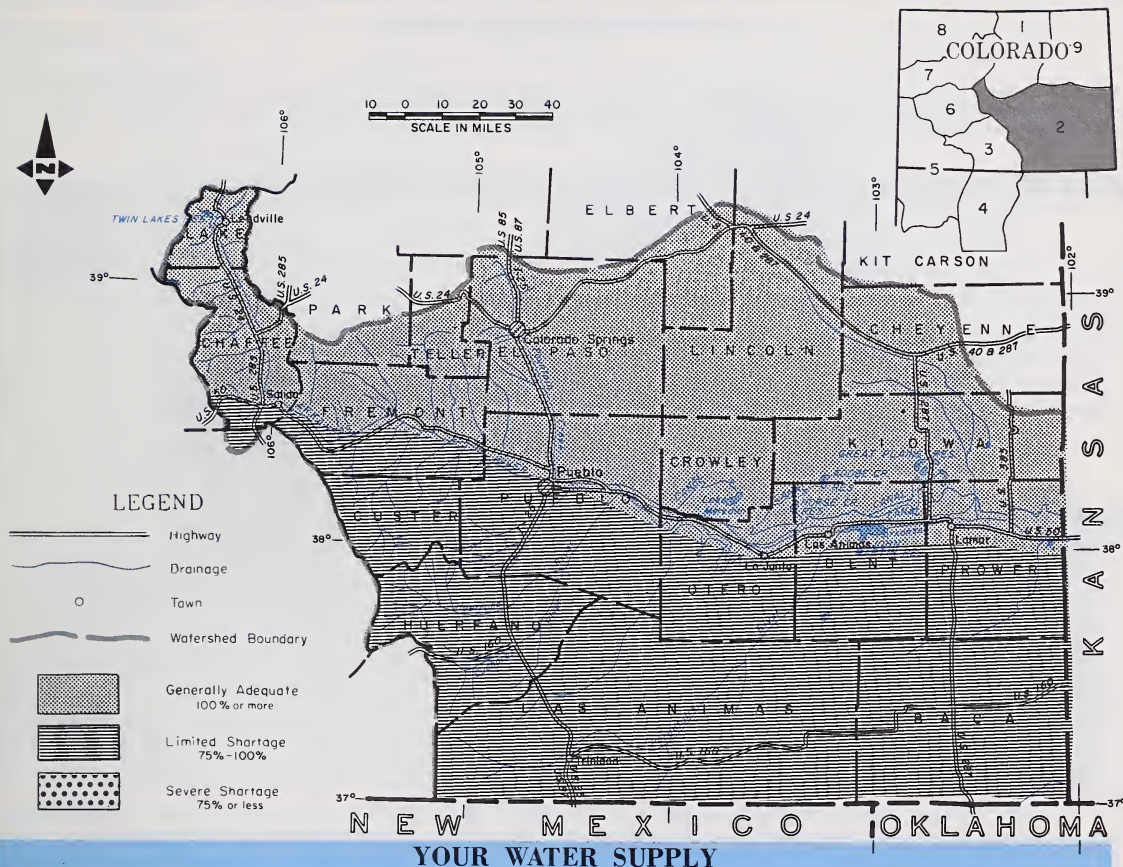


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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE ARKANSAS RIVER WATERSHED IN COLORADO

as of
MAY 1, 1978

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



SOME WATER SHORTAGES CAN BE EXPECTED THIS SUMMER ON THE ARKANSAS AND ITS SOUTHERN TRIBUTARIES. THE SNOWPACK AT THE HIGHER ELEVATIONS ON THE ARKANSAS IS ABOVE NORMAL BUT RAPIDLY FALLS OFF AT THE LOWER PORTIONS. CARRYOVER STORAGE IS POOR. VALLEY SOILS WERE REPORTED AS DRY, BUT SHOULD BE IMPROVED AFTER THE FIRST OF MAY STORMS.

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STREAMFLOW FORECASTS (1000 Ac. Ft.) April—September

FORECAST POINT	FORE-CAST	% of Average	Average *
Arkansas River near Pueblo (1)	310	106	290
Arkansas River at Salida (2)	330	105	313
Cucharas River near La Veta	8	80	10
Huerfano River near Redwing	12	80	15
Purgatoire River at Trinidad (3)	32	84	38

(1) Plus change in storage in Pueblo Reservoir. (2) Observed flow plus change in Clear Creek, Twin Lakes and Turquoise Reservoirs minus diversions through Busk Ivanhoe, Boustead, Divide, Twin Lakes and Homestake Tunnels and Ewing, Fremont Pass, Wurtz and Columbine ditches. (3) Change in storage in Trinidad Reservoir.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Apishapa River	Avg.	Fair
Fountain Creek	Avg.	Fair
Grape Creek	Avg.	Fair
Hardscrabble Creek	Avg.	Fair
Monument Creek	Avg.	Fair

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average *
Arkansas	10	291	114
Cucharas	—	—	—
Purgatoire	1	250	20

RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average *
Adobe	62	0	0	16
Clear Creek	11	2	—	8
Cucharas	40	0	0	3
Great Plains	150	0	0	57
Horse Creek	27	0	9	7
John Martin	621	0	9	73
Meredith	42	0	0	13
Model	15	0	0	3
Turquoise	121	43	39	—
Twin Lakes	58	14	8	22
Pueblo	327	4	54	—

* 1958-1972 period.

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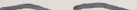
WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE UPPER RIO GRANDE WATERSHED IN COLORADO




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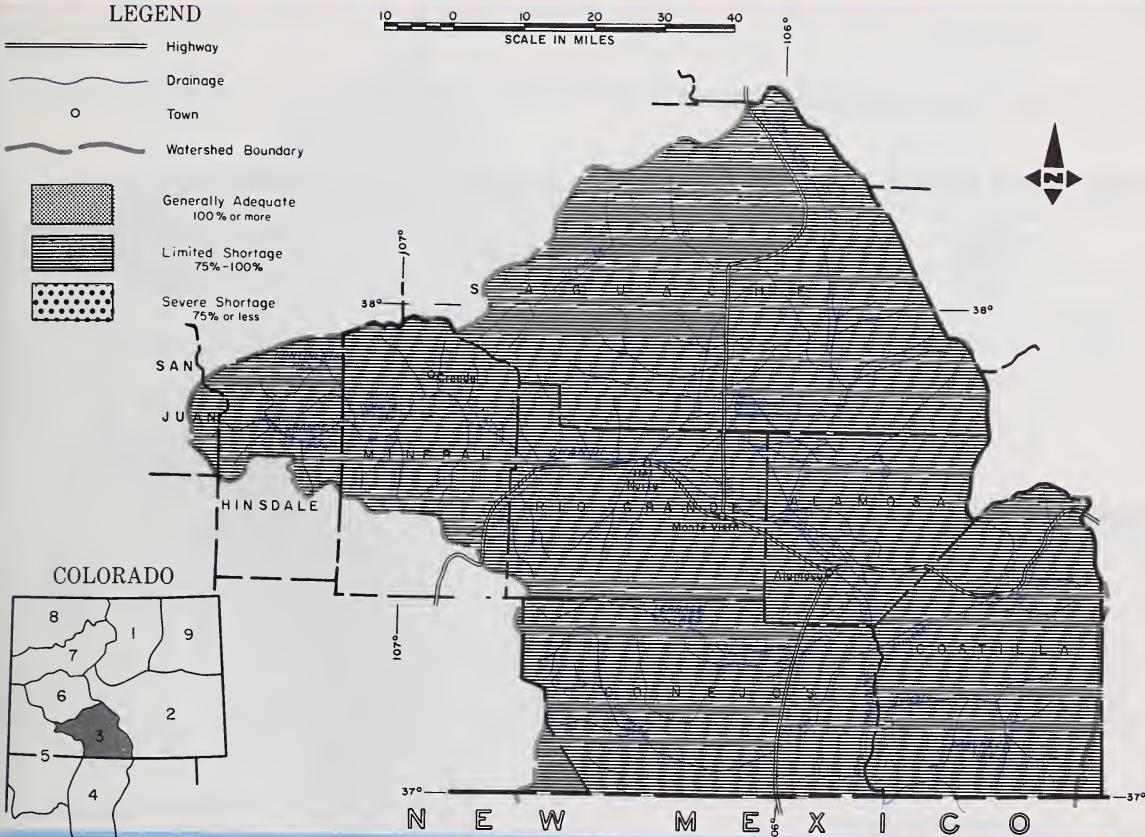
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LEGEND

-  Highway
-  Drainage
-  Town
-  Watershed Boundary

-  Generally Adequate
100% or more
-  Limited Shortage
75%-100%
-  Severe Shortage
75% or less

10 0 10 20 30 40
SCALE IN MILES



YOUR WATER SUPPLY

THE SNOWPACK ON THE RIO GRANDE STILL REMAINS NEAR NORMAL. SUMMER FLOWS SHOULD BE ONLY SLIGHTLY BELOW NORMAL UNLESS THE DROUGHT OF LAST YEAR SUBSTANTIALLY DEPLETED SURFACE AND SUB-SOIL MOISTURE. CARRYOVER STORAGE IS ONLY ABOUT 60% OF NORMAL. EARLY MAY STORMS MAY HAVE IMPROVED SOIL MOISTURE CONDITIONS OVER THE ENTIRE VALLEY.

This report prepared by

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U. S. DEPARTMENT OF AGRICULTURE—SOIL CONSERVATION SERVICE

STREAMFLOW FORECASTS (1000 Ac. Ft.) April—September

FORECAST POINT	FORE-CAST	% of Average	* Average
Alamosa Creek above Terrace Reservoir	50	81	62
Conejos River near Mogote (1)	175	95	184
Culebra Creek at San Luis (2)	18	110	17
Rio Grande at 30 Mile Bridge (3)	100	83	121
Rio Grande near Del Norte (3)	380	81	468
South Fork of Rio Grande at South Fork	100	87	115

(1) Observed flow plus change in storage in Platoro Reservoir. (2) Observed flow plus change in storage in Sanchez Reservoir. (3) Observed flow plus change in storage in Santa Maria, Rio Grande and Continental Reservoirs.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Saguache Creek	Avg.	Fair
Sangre de Cristo Cr.	Avg.	Fair
Trinchera Creek	Avg.	Fair

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average *
Continental	27	5	3	7
Platoro	75	13	13	10
Rio Grande	46	8	5	20
Sanchez	103	6	5	15
Santa Maria	45	4	8	8
Terrace	18	1	4	7

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average *
Alamosa	—	---	---
Conejos	3	2940	120
Culebra	2	200	110
Rio Grande	10	389	91

* 1958-1972 period.

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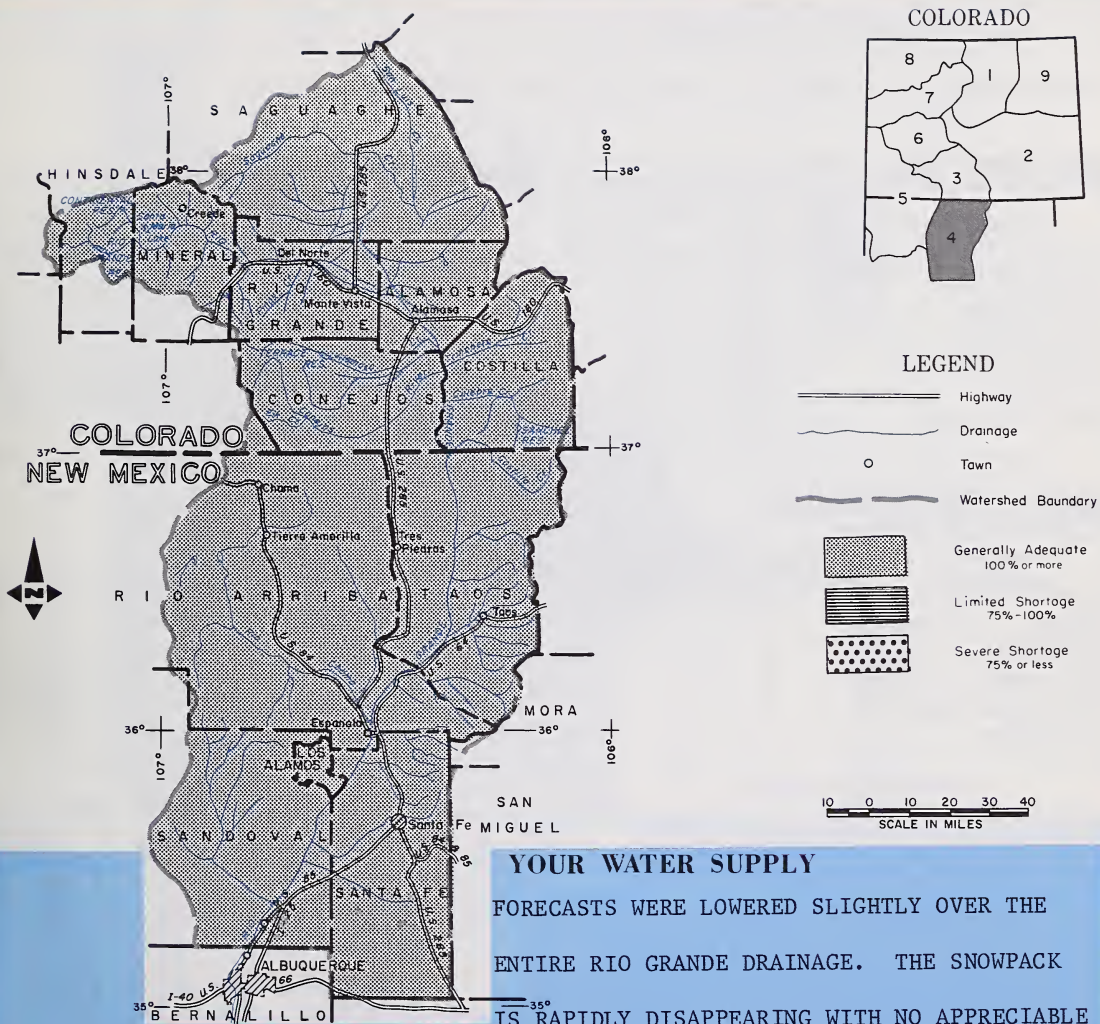


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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE RIO GRANDE WATERSHED IN NEW MEXICO

as of
MAY 1, 1978

U.S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



INCREASE IN STREAMFLOW. SOME OF THE FLOW WILL BE NEEDED TO REPLACE THE SOIL
MOISTURE FROM LAST YEAR'S DROUGHT. SOME SHORTAGES CAN BE EXPECTED. CARRYOVER
STORAGE IS 58% OF NORMAL. THE EARLY MAY STORM IN RIO GRANDE DRAINAGE MAY HELP.

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U.S. DEPARTMENT OF AGRICULTURE—SOIL CONSERVATION SERVICE

STREAMFLOW FORECASTS (1000 Ac. Ft.) March—July

FORECAST POINT	FORE-CAST	% of Average	Average *
Costilla Creek at Costilla (1)	23	121	19
Jemez River near Jemez	36	124	29
Pecos River at Pecos	40	98	41
Red River at Mouth near Questa	30	103	29
Rio Chama at El Vado	200	105	190
Rio Grande at Otowi (2)	500	95	526
Rio Grande at San Marcial (2)	350	98	355
Rio Hondo near Valdez	16	114	14
Santa Cruz River at Cundiyo	14	108	13

(1) Observed flow plus change in Costilla Reservoir. (2) Observed flow plus change in storage in El Vado and Abiquiu Reservoir.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Embudo Creek	Avg.	Fair
Mora River	Avg.	Fair
Nambe Creek	Avg.	Fair
Rio Ojo Caliente	Avg.	Fair
Rio Pueblo de Taos	Avg.	Fair
Santa Fe Creek	Avg.	Fair

RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average *
Avalon	5	2	1	--
Caballo	344	40	48	83
Conchas	273	98	84	175
El Vado	195	80	127	28
Elephant Butte	2195	198	348	380
McMillan	34	16	9	--
Sumner	111	3	5	62

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average *
Pecos	--	--	--
Red River	--	--	--
Rio Chama	--	--	--
Rio Grande, NM	--	--	--
Rio Hondo	--	--	--

* 1958-1972 period.

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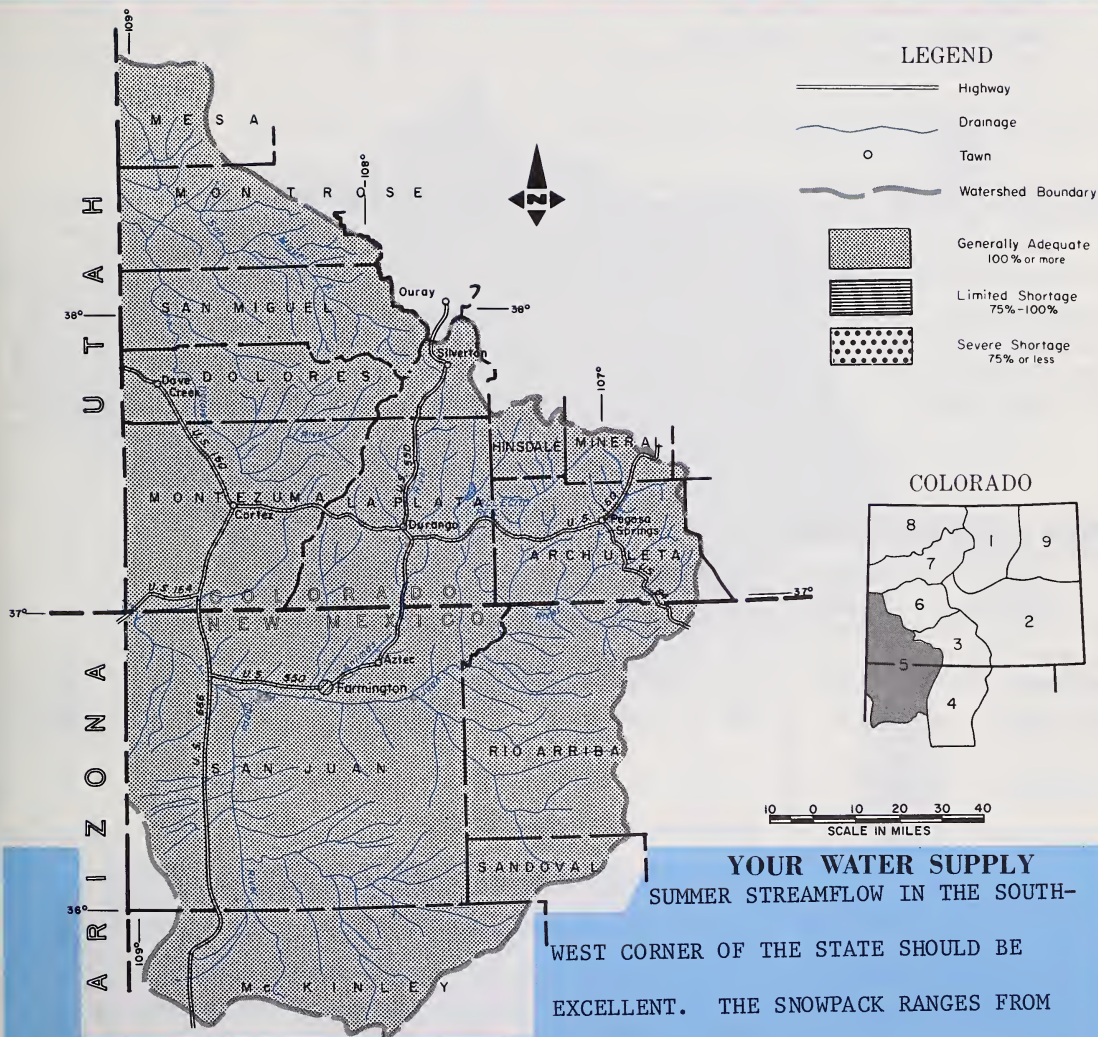


FIRST CLASS MAIL

WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE SAN MIGUEL, DOLORES, ANIMAS, AND SAN JUAN WATERSHEDS IN COLORADO AND NEW MEXICO

as of
MAY 1, 1978

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



106% TO 138% OF THE 15-YEAR AVERAGE. THE DOLORES AND MANCOS HAVE ESPECIALLY
HIGH FORECASTS. CARRYOVER STORAGE IS GOOD. THE FIRST OF MAY STORM SHOULD
IMPROVE CONDITIONS, ESPECIALLY THE VALLEY SOIL MOISTURE.

This report prepared by

JACK N. WASHICHEK—BERNARD A. SHAFER
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DENVER, COLORADO

Issued by

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ALBUQUERQUE, NEW MEXICO

JAMES E. TATUM—AREA CONSERVATIONIST
SANTA FE, NEW MEXICO

STREAMFLOW FORECASTS (1000 Ac. Ft.) April—September

FORECAST POINT	FORECAST	% of Average	Average *
Animas River at Durango	550	130	423
Dolores River at Dolores	300	129	232
La Plata River at Hesperus	30	125	24
Los Pinos River at Bayfield (1)	230	116	198
Mancos River near Towac (2)	18	129	14
Inflow to Navajo River (1 & 3)	650	109	597
Piedra Creek at Arboles	200	108	185
San Juan River at Carracas	350	100	354
San Miguel River at Placerville	170	131	130

(1) Observed flow plus change in storage in Vallecito Reservoir. (2) March-July. (3) April-July.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Florida River	Exc.	Avg.
Hermosa Creek	Exc.	Avg.
West Dolores River	Exc.	Avg.
Williams Creek	Exc.	Avg.

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average *
Groundhog	22	11	4	12
Jackson Gulch	10	4	0	7
Lemon	40	7	22	25
Navajo	1696	1030	1090	944
Vallecito	126	39	50	68

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average *
Animas	6	750	127
Dolores	4	---	138
San Juan	5	538	106

* 1958-1972 period.

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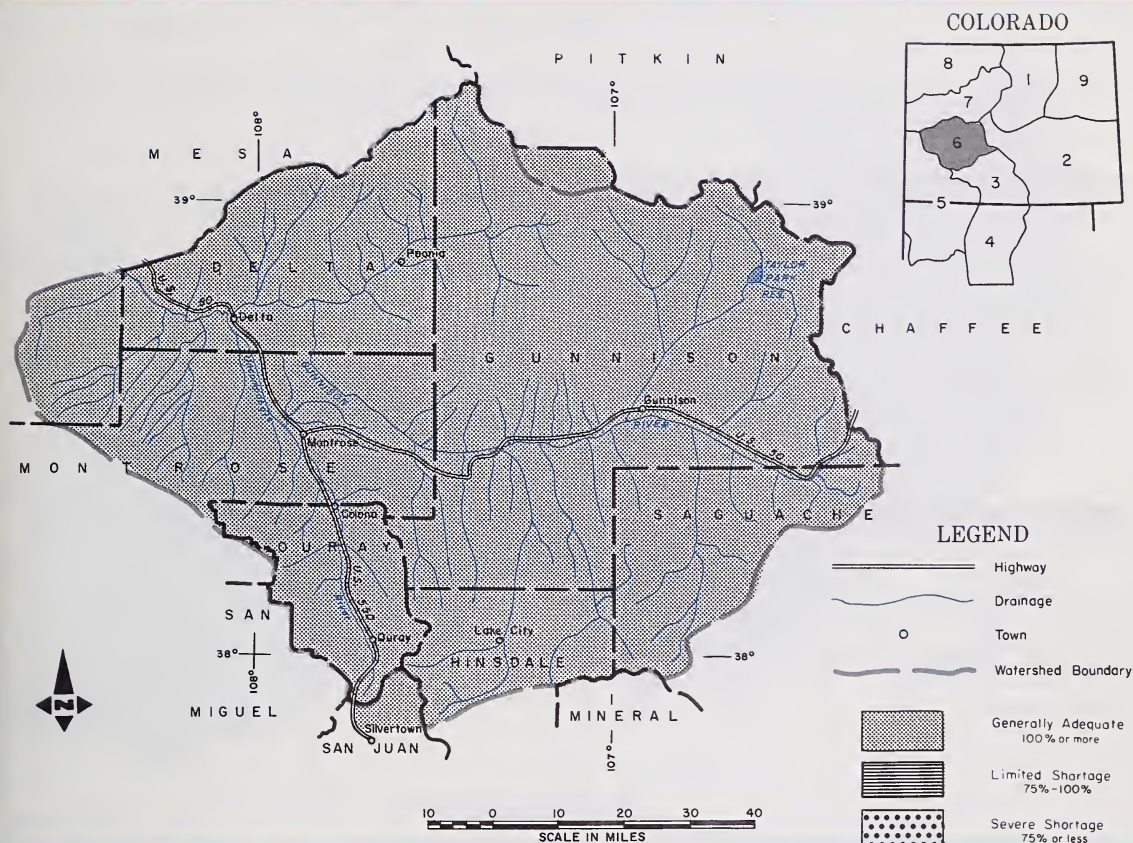


FIRST CLASS MAIL

WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE GUNNISON RIVER WATERSHED IN COLORADO

as of
MAY 1, 1978

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



YOUR WATER SUPPLY

APRIL WAS ANOTHER GOOD MONTH FOR SNOW. BASIN SNOWCOVER IS NOW 129 TO 167% OF NORMAL WITH THE GRAND MESA AREA HAVING THE HEAVIEST ACCUMULATIONS. SNOWMELT RUNOFF SHOULD PROVIDE ABOVE NORMAL STREAMFLOW. RESERVOIR STORAGE REMAINS BELOW NORMAL BUT SHOULD IMPROVE CONSIDERABLY WITH THE SPRING RUNOFF. SOIL MOISTURE IS RATED AS FAIR TO GOOD IN IRRIGATED AREAS.

This report prepared by

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U. S. DEPARTMENT OF AGRICULTURE—SOIL CONSERVATION SERVICE

STREAMFLOW FORECASTS (1000 Ac. Ft.) April—September

FORECAST POINT	FORE-CAST	% of Average	Average *
Gunnison River inflow to Blue Mesa Reservoir (1)	930	117	793
Gunnison River near Grand Junction (2)	1500	127	1184
North Fork of Gunnison (3)	350	133	263
Surface Creek near Cedaredge	21	131	16
Uncompahgre River at Colona	175	130	134

(1) Observed flow plus change in storage in Taylor Reservoir. (2) Observed flow plus change in storage in Blue Mesa, Morrow Point and Taylor Reservoirs. (3) Observed flow plus change in storage in Paonia Reservoir.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Ohio Creek	Exc.	Exc.
Slate River	Exc.	Exc.
Taylor River	Exc.	Exc.
Tomichi Creek	Exc.	Avg.

RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average *
Blue Mesa	830	276	360	308
Morrow Point	121	114	113	115
Taylor	106	28	58	62

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average *
Gunnison	12	1059	152
Surface Creek	3	1717	167
Uncompahgre	3	399	129

* 1958-1972 period.

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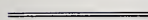



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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE COLORADO RIVER WATERSHED IN COLORADO

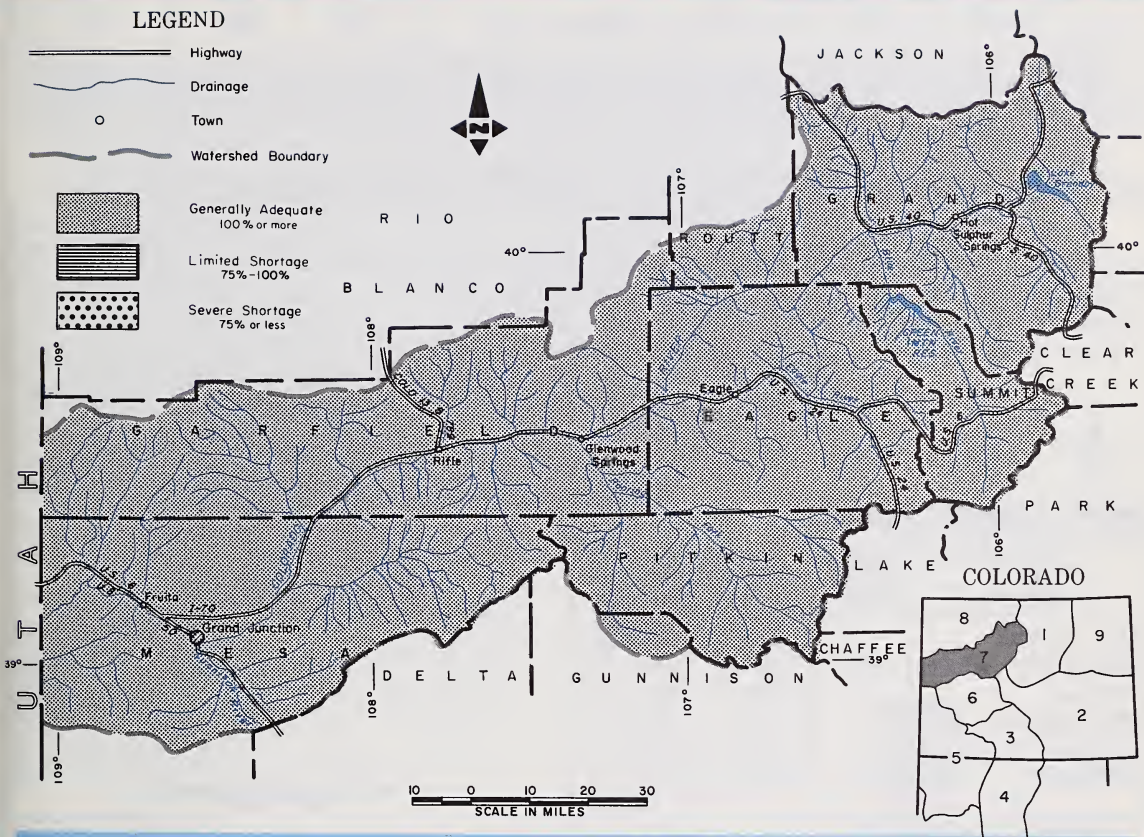
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MAY 1, 1978

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO

LEGEND

-  Highway
-  Drainage
-  Town
-  Watershed Boundary

-  Generally Adequate
100% or more
-  Limited Shortage
75%-100%
-  Severe Shortage
75% or less



YOUR WATER SUPPLY

SNOWPACK REMAINS GOOD TO EXCELLENT IN ALL WATERSHEDS. STREAMFLOW FORECASTS HAVE REMAINED THE SAME OR DECREASED SLIGHTLY FROM LAST MONTH. ALL STREAMS SHOULD FLOW ABOVE AVERAGE AND WILL SIGNIFICANTLY IMPROVE RESERVOIR STORAGE WHICH IS CURRENTLY ONLY 46% OF THE 15-YEAR AVERAGE. SUB-SURFACE MOISTURE IN IRRIGATED AREAS IS REPORTED AS FAIR TO GOOD.

This report prepared by

JACK N. WASHICHEK—BERNARD A. SHAFER
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DENVER, COLORADO

Issued by

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GRAND JUNCTION, COLORADO

U. S. DEPARTMENT OF AGRICULTURE—SOIL CONSERVATION SERVICE

STREAMFLOW FORECASTS (1000 Ac. Ft.) April—September

FORECAST POINT	FORECAST	% of Average	Average *
Blue River inflow to Dillon Reservoir	205	121	169
Blue River inflow to Green Mountain Reservoir (1)	360	121	297
Colorado River near Cameo (6)	2900	122	2370
Colorado River near Dotsero (3)	1800	126	1434
Colorado River inflow to Granby Reservoir (2)	290	127	228
Roaring Fork at Glenwood Springs (4)	800	112	713
Williams Fork near Parshall (5)	75	119	63
Willow Creek inflow to Willow Creek Reservoir	55	117	47

(1) Observed flow plus diversions through Roberts Tunnel and change in storage in Dillon Reservoir. (2) Observed flow corrected for change in storage in Lake Granby as furnished by U.S.B.R. and diversions by Adams Tunnel and Grand River Ditch. (3) Observed flow plus the changes as indicated in (1), (2) and (5) plus Moffat Ditch and change in Homestake, Williams Fork, Green Mt. and Willow Creek Reservoirs. (4) Observed flow plus diversions through Divide and Twin Lakes Tunnels plus change in storage in Ruedi Reservoir. (5) Observed flow plus diversions through August P. Gumlick Tunnel. (6) Observed flow plus the changes as indicated in (3) and (4).

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Brush	Exc.	Avg.
Eagle River	Exc.	Avg.
Gypsum Creek	Exc.	Avg.

RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average*
Dillon	254	109	199	229
Granby	466	21	150	209
Green Mountain	139	48	72	45
Homestake	43	0	9	11
Ruedi	101	59	70	55
Vega	32	4	9	15
Williams Fork	97	29	46	29
Willow Creek	9	7	6	6

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average *
Blue River	7	224	120
Colorado	20	311	128
Plateau	3	1051	161
Roaring Fork	7	412	125
Williams Fork	3	304	105
Willow	2	565	109

* 1958-1972 period.

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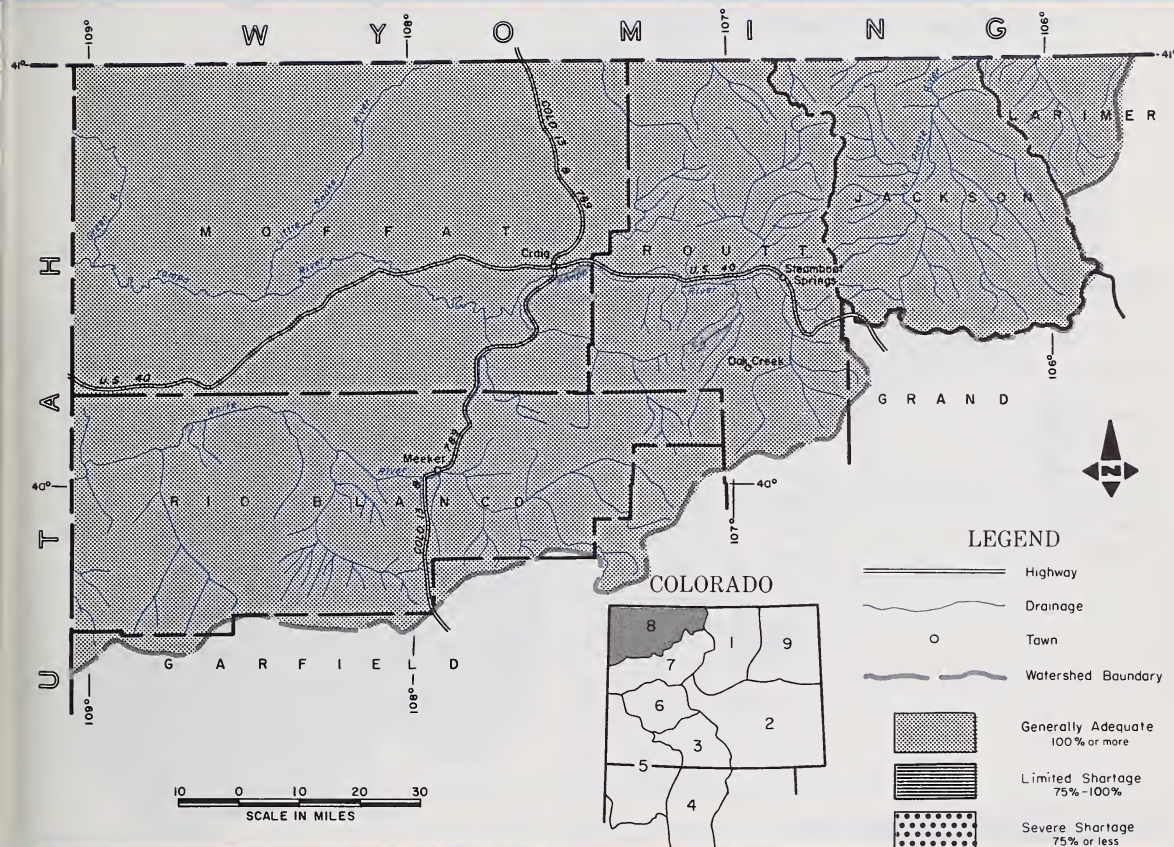


FIRST CLASS MAIL

WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE YAMPA, WHITE, AND NORTH PLATTE RIVER WATERSHEDS IN COLORADO

as of
MAY 1, 1978

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



YOUR WATER SUPPLY

STORMS DURING APRIL CONTINUED TO BUILD THE SNOWPACK AT HIGHER ELEVATIONS WHILE SOME MELT OCCURRED AT LOWER ELEVATIONS. TOWER SNOW COURSE ON BUFFALO PASS WAS MEASURED AT 175 INCHES OF SNOW WITH 6.5 FEET OF WATER, ANOTHER RECORD. THE YAMPA AND WHITE RIVERS WILL FLOW MUCH ABOVE NORMAL. LOCALIZED CHANNEL OVERFLOWS CAN BE EXPECTED ON LOW LYING AREAS. THE NORTH PLATTE SHOULD PRODUCE ABOVE NORMAL FLOWS ALSO. SOIL MOISTURE IS REPORTED AS GOOD.

This report prepared by

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Issued by

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U. S. DEPARTMENT OF AGRICULTURE—SOIL CONSERVATION SERVICE

STREAMFLOW FORECASTS (1000 Ac. Ft.) April—September

FORECAST POINT	FORE-CAST	% of Average	Average *
Elk River at Clark	280	141	198
Laramie River near Woods	140	110	127
Little Snake River at Lily	500	154	324
North Platte River at Northgate	290	121	240
White River near Meeker	420	142	295
Yampa River near Maybell	1300	144	905
Yampa River at Steamboat Springs	400	146	274

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Canadian River	Avg.	Fair
Hunt Creek	Avg.	Fair
Illinois River	Avg.	Fair
Michigan River	Avg.	Fair
Oak Creek	Exc.	Avg.
Trout Creek	Avg.	Fair

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average *
Elk	2	1082	158
Laramie	3	189	102
North Platte	5	276	113
White	2	1103	156
Yampa	6	749	149

* 1958-1972 period.

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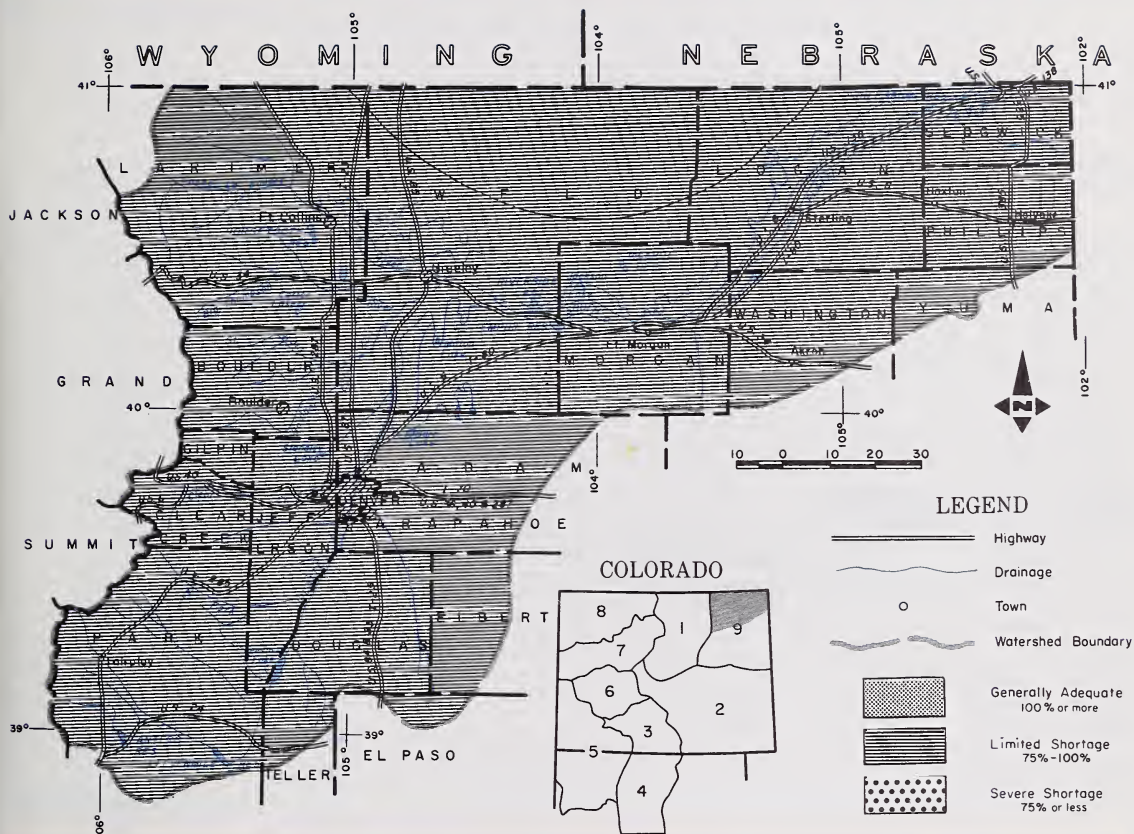


FIRST CLASS MAIL

WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE LOWER SOUTH PLATTE RIVER WATERSHED IN COLORADO

as of
MAY 1, 1978

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



YOUR WATER SUPPLY

WATER SUPPLY FORECASTS FELL SLIGHTLY THIS MONTH. SNOWFALL WAS BELOW AVERAGE. SOME OF THE FLOW WILL BE NEEDED TO FILL THE SOIL MOISTURE VOID FROM LAST YEAR'S DROUGHT. CONSIDERING CARRYOVER STORAGE AND EXPECTED FLOWS, SOME SHORTAGES CAN BE EXPECTED. EARLY MAY STORMS GREATLY IMPROVED THE MOUNTAIN AND VALLEY SOIL MOISTURE.

This report prepared by

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GREELEY, COLORADO

U. S. DEPARTMENT OF AGRICULTURE — SOIL CONSERVATION SERVICE

STREAMFLOW FORECASTS (1000 Ac. Ft.) April—September

FORECAST POINT	FORECAST	% of Average	Average*
Big Thompson River at Drake (1)	105	98	107
Boulder Creek at Orodell	50	102	49
Cache La Poudre River at Canyon Mouth (2)	235	95	247
Clear Creek at Golden (3)	125	98	127
Saint Vrain Creek at Lyons	75	100	75

(1) Observed flow plus by-pass to power plants. (2) Observed flow minus trans-basin diversions plus municipal and irrigation diversions. (3) Observed flow minus diversion through Berthoud Pass Ditch.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
South Platte from Greeley to Fort Morgan	Avg.	Fair
South Platte from Fort Morgan to Sterling	Fair	Fair
South Platte below Sterling	Fair	Poor

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average*
Big Thompson	5	308	95
Boulder	3	249	105
Cache La Poudre	7	229	99
Clear Creek	5	185	107
Saint Vrain	2	293	51
South Platte	3	202	99

RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average*
Carter	109	96	106	99
Cheesman	79	30	34	60
Eleven Mile	98	83	90	89
Empire	38	30	35	33
Horsetooth	144	59	99	121
Jackson	35	32	34	33
Julesburg	28	23	24	23
Point of Rocks	70	69	72	66
Prewitt	33	10	27	23
Riverside	58	50	62	58

* 1958-1972 period.

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APPENDIX I

SNOW COURSE MEASUREMENTS as of MAY 1, 1978

SNOW COURSE	CURRENT INFORMATION			PAST RECORD	
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
				LAST YEAR	AVG. 58-72
NORTH PLATTE BASIN					
<u>Laramie River</u>					
Deadman Hill	4/26	41	16.2	8.6	18.0
McIntyre	4/27	22	9.1	4.2	10.1
Roach	4/27	56	22.2	12.2	18.5
<u>North Platte River</u>					
Cameron Pass	4/28	75	34.9	22.3	31.2
Columbine Lodge	5/01	60	30.8	4.0	22.0
Northgate	4/28	7	2.2	0.2	3.7
Park View	4/27	12	4.6	1.1	6.5
Willow Cr. Pass (B)	4/27	27	11.6	2.9	11.0
SOUTH PLATTE BASIN					
<u>Boulder Creek</u>					
Baltimore	4/27	4	1.8	1.8	3.9
Boulder Falls	4/26	34	14.3	5.0	13.1
University Camp	4/26	51	22.7	8.8	19.9
<u>Big Thompson River</u>					
Deer Ridge	4/27	1	0.5	0.0	2.7
Hidden Valley	4/27	22	7.1	0.0	11.6
Lake Irene (B)	4/28	69	29.7	11.5	22.9
Long's Peak	4/28	25	9.7	4.4	12.5
Two Mile	4/27	50	17.3	5.0	17.9
<u>Cache La Poudre</u>					
Bennett Creek	4/30	4	0.8	0.0	---
Big South	4/27	0	0.0	0.0	0.6
Cameron Pass	4/28	75	34.9	22.3	31.2
Chambers Lake	4/27	17	8.4	0.0	6.0
Deadman Hill	4/26	41	16.0	8.6	18.0
Hourglass Lake	4/30	12	4.0	1.2	6.0
Joe Wright	4/28	74	31.7	18.8	---
Lost Lake	4/27	27	11.4	0.7	9.9
Red Feather	4/26	4	1.6	0.5	5.1
<u>Clear Creek</u>					
Baltimore (B)	4/27	4	1.8	1.8	3.9
Berthoud Falls	4/27	24	10.4	5.9	12.4
Empire	4/27	19	6.6	4.2	6.9
Grizzly Peak (B)	4/26	62	26.3	12.6	20.1
Loveland Lift	Discontinued		---	19.4	24.0
Loveland Pass	4/26	39	17.8	9.3	15.0
<u>St. Vrain River</u>					
Copeland Lake	4/28	0	0.0	0.0	2.4
Ward	4/25	10	4.1	1.4	5.6
Wild Basin	4/28	32	13.7	2.7	12.3
<u>South Platte River</u>					
Como	4/26	9	2.7	0.0	---
Geneva Park	4/30	0	0.0	0.0	1.9
Horseshoe Mt.	4/27	31	10.1	5.5	---
Hoosier Pass	4/26	39	14.3	7.1	12.9
Jefferson Creek	4/26	21	8.3	4.1	8.1
Mosquito	4/27	14	5.4	0.5	---
Trout Creek Pass	4/28	0	0.0	0.0	---
ARKANSAS BASIN					
<u>Arkansas River</u>					
Bigelow Divide	4/26	0	0.0	2.6	3.6
Cooper Hill (B)	4/26	49	16.1	8.0	12.1
East Fork	4/27	22	8.7	2.3	7.5
Four Mile Park	4/28	0	0.0	0.0	1.4
Fremont Pass	4/27	59	23.8	12.7	18.1
Garfield	4/28	14	6.6	0.0	8.6
Hermit Lake	4/27	0	0.0	0.0	---
Monarch Pass	4/28	36	16.7	5.0	16.3
Tennessee Pass	4/28	29	11.9	0.0	8.5
Twin Lakes Tunnel	4/27	40	15.7	3.6	9.4
Westcliffe	4/27	0	0.0	0.0	1.6

SNOW COURSE	CURRENT INFORMATION			PAST RECORD	
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
				LAST YEAR	58-72
<u>Cucharas River</u>					
Apishapa	4/27	0	0.0	2.4	3.3
Cucharas Creek	4/27	0	0.0	4.5	---
La Veta Pass (B)	4/27	0	0.0	0.0	2.1
<u>Purgatoire River</u>					
Bourbon	4/27	2	0.5	0.2	2.5
RIO GRANDE BASIN-COLO					
<u>Alamosa River</u>					
Silver Lakes	4/26	0	0.0	0.0	0.7
<u>Conejos River</u>					
Cumbres Pass	4/25	41	21.0	0.0	13.7
La Manga	4/25	39	16.7	4.7	---
Platoro	4/29	20	8.4	1.0	10.5
River Springs	4/28	0	0.0	0.0	0.3
<u>Culebra River</u>					
Brown Cabin	4/25	0	0.0	0.0	---
Cottonwood (B)	4/25	0	0.0	0.0	---
Culebra	4/26	18	6.6	3.3	3.9
La Veta Pass (B)	4/27	0	0.0	0.0	2.1
Trinchera (B)	4/25	11	4.1	5.9	---
<u>Rio Grande</u>					
Cochetopa Pass	4/26	6	2.7	0.0	3.3
Grayback	4/28	28	9.6	3.0	---
Hiway	4/27	62	25.2	8.9	25.8
Lake Humphrey	4/26	0	0.0	0.0	0.9
Love Lake	4/28	6	1.2	0.0	---
Pass Creek	4/27	0	0.0	0.0	3.5
Pool Table	4/28	3	0.9	0.0	2.4
Porcupine	4/29	13	3.8	0.0	7.4
Santa Maria	4/29	0	0.0	0.0	0.8
Upper Rio Grande	4/29	7	2.7	0.0	2.2
Wolf Creek Pass	4/27	47	22.9	2.9	21.5
Wolf Cr. Summit (B)	4/27	74	30.1	11.2	30.4
RIO GRANDE BASIN-NM					
Chamita	4/25	0	0.0	0.0	0.2
Hopewell	4/27	25	11.0	0.0	---
Quemazon	4/26	0	0.0	0.0	---
Red River #2	4/28	0	0.0	0.0	---
Rio En Medio	4/26	6	2.5	0.0	---

NOTE: NS - No Survey
(B) - On Adjacent Drainage

APPENDIX I

SNOW COURSE MEASUREMENTS as of MAY 1, 1978

SNOW COURSE	CURRENT INFORMATION			PAST RECORD	
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
				LAST YEAR	AVG. 58-72
SAN JUAN-DOLORES BASIN					
<u>Animas River</u>					
Cascade	4/27	0	0.0	0.0	4.2
Lemon	4/27	0	0.0	0.0	---
Mineral Creek	4/27	38	16.6	0.0	11.6
Molas Lake	4/27	31	12.0	0.0	7.8
Purgatory	NS	---	---	0.0	---
Red Mt. Pass (B)	4/27	90	41.1	13.2	32.5
Silverton Sub-Sta.	4/27	0	0.0	0.0	0.3
Spud Mountain	4/27	61	29.3	0.0	21.7
<u>Dolores River</u>					
Lizard Head	4/28	42	21.2	0.0	14.9
Lone Cone	4/27	27	12.0	0.0	---
Ophir Loop	4/26	44	15.6	3.4	---
Rico	4/28	0	0.0	0.0	0.1
Telluride	4/26	0	0.0	0.0	1.4
Trout Lake	4/26	31	14.0	0.0	9.1
<u>San Juan River</u>					
Chama Divide (B)	4/25	0	0.0	0.0	0.0
Chamita (B)	4/25	0	0.0	0.0	0.2
Upper San Juan	4/27	56	28.3	1.5	25.0
Wolf Cr. Pass (B)	4/27	47	22.9	2.4	21.5
Wolf Cr. Summit	4/27	74	30.1	11.2	30.4
GUNNISON BASIN					
<u>Gunnison River</u>					
Alexander Lake	4/28	78	37.2	2.8	21.9
Blue Mesa	4/27	6	3.0	0.0	1.7
Butte	4/27	49	20.3	3.9	---
Cochetopa Pass (B)	4/26	6	2.7	0.0	3.3
Crested Butte	4/27	29	15.2	0.0	7.0
Keystone	4/27	59	27.4	4.0	17.2
Lake City	4/26	12	4.1	0.0	4.2
Mesa Lakes (B)	4/28	57	25.7	0.6	15.8
McClure Pass	4/25	28	12.3	0.0	9.1
Park Cone	4/27	23	8.7	0.0	7.3
Park Reservoir	4/27	86	40.1	2.6	24.0
Porphyry Creek	4/26	47	21.3	8.2	16.5
Tomichi	4/28	27	12.1	1.6	10.3
<u>Surface Creek</u>					
Alexander Lake	4/28	78	37.2	2.8	21.9
Mesa Lakes	4/28	57	25.7	0.6	15.8
Park Reservoir	4/27	86	40.1	2.6	24.0
<u>Uncompahgre River</u>					
Ironton Park	4/27	25	11.6	0.0	7.0
Red Mountain Pass	4/27	90	41.1	13.2	32.5
Telluride (B)	4/26	0	0.0	0.0	1.4
COLORADO BASIN					
<u>Blue River</u>					
Blue River	4/26	5	1.7	1.8	5.9
Fremont Pass	4/27	59	23.8	12.7	18.1
Officers Gulch	4/26	5	2.3	0.0	4.7
Grizzly Peak	4/26	62	26.3	12.6	20.1
Hoosier Pass (B)	4/26	39	14.3	7.1	12.9
Shrine Pass	4/25	60	25.6	10.5	20.0
Snake River	4/26	9	4.0	0.0	3.3
Summit Ranch	4/26	15	6.4	0.8	4.9

SNOW COURSE	CURRENT INFORMATION			PAST RECORD	
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
				LAST YEAR	AVG. 58-72
<u>Colorado River</u>					
Arrow	4/27	27	12.0	4.6	11.1
Berthoud Pass	4/28	39	17.6	9.9	16.0
Berthoud Summit	4/27	60	24.5	14.7	21.1
Cooper Hill	4/26	49	16.1	8.0	12.1
Fiddler Gulch	Discontinued	---	---	8.8	14.5
Glenmar Ranch	4/27	4	1.7	0.0	4.4
Gore Pass	4/26	20	9.4	0.0	7.8
Grand Lake	4/28	22	9.3	0.8	4.0
Lake Irene	4/28	69	29.7	11.5	22.9
Lapland	4/26	21	9.4	3.0	7.3
Lulu	4/27	66	31.9	11.8	20.3
Lynx Pass	4/26	30	13.0	0.0	8.4
McKenzie Gulch	4/25	0	0.0	0.0	1.0
Middle Fork	4/27	12	5.3	0.9	6.2
Milner	4/28	41	18.8	4.5	13.1
North Inlet	4/26	24	10.6	0.5	6.3
Pando	4/25	25	10.3	0.0	8.0
Phantom Valley	4/28	23	10.2	0.0	7.0
Ranch Creek	4/27	25	9.9	2.7	9.4
Tennessee Pass (B)	4/28	29	11.9	0.0	8.5
Vail	4/27	68	28.9	---	---
Vasquez	4/27	37	15.2	12.8	12.8
<u>Roaring Fork</u>					
Aspen	NS	---	---	8.5	17.7
Independence Pass	4/27	45	19.3	8.0	16.8
Ivanhoe	4/26	55	24.4	8.3	17.7
Kiln	4/24	40	15.9	0.0	---
Lift	NS	---	---	9.7	19.0
McClure Pass	4/25	28	12.3	0.0	9.1
Nast	4/26	2	0.9	0.0	2.0
North Lost Trail	4/25	24	10.3	0.0	8.3
<u>Williams Fork River</u>					
Glenmar Ranch	4/27	4	1.7	0.0	4.4
Jones Pass	4/28	43	20.7	8.2	15.8
Middle Fork	4/27	12	5.3	0.9	6.2
<u>Willow Creek</u>					
Granby	4/27	13	4.8	0.0	4.0
Willow Cr. Pass	4/27	27	11.6	2.9	11.0
<u>Plateau Creek</u>					
Mesa Lakes	4/28	57	25.7	0.6	15.8
Park Reservoir	4/27	86	40.1	2.6	24.0
Trickle Divide	4/27	90	41.4	7.0	26.9
YAMPA BASIN					
<u>Elk River</u>					
Elk River	4/27	49	22.9	3.5	15.4
Hahn's Peak	4/27	32	15.0	0.0	8.5
<u>White River</u>					
Burro Mountain	4/25	48	21.9	3.5	15.0
Rio Blanco	4/26	34	16.7	0.0	9.8
<u>Yampa River</u>					
Bear River	4/28	27	11.2	0.0	7.5
Columbine (B)	5/01	60	30.8	3.9	22.0
Crosho	4/28	38	17.3	2.4	---
Dry Lake	4/25	59	30.2	5.5	16.9
Lynx Pass (B)	4/26	30	13.0	0.0	8.4
Rabbit Ears	5/01	80	38.8	8.8	27.1
Tower	4/25	175	79.2	29.5	---
Yampa View	5/01	25	12.3	0.0	9.3

NOTE: NS - No Survey
(B) - On Adjacent Drainage

LIST of COOPERATORS

The following organizations cooperate in snow surveys for the Colorado, Platte, Arkansas and Rio Grande watersheds. Many other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

STATE

- Colorado State Engineer
- New Mexico State Engineer
- Nebraska State Engineer
- Colorado State University Experiment Station
- Rocky Mountain Forest and Range Experiment Station
- New Mexico Dept. of Game and Fish

FEDERAL

- Department of Agriculture
 - Forest Service
 - Soil Conservation Service
- Department of Interior
 - Bureau of Reclamation
 - Geological Survey
 - National Park Service
 - Indian Service
- Department of Commerce
 - NOAA, National Weather Service
- Defense Department
 - Army Engineer Corps
- Atomic Energy Commission

INVESTOR OWNED UTILITIES

- Colorado Public Service Company
- Public Service Company of New Mexico

MUNICIPALITIES

City of Denver	City of Greeley
City of Boulder	City of Fort Collins

WATER USERS ORGANIZATIONS

- Arkansas Valley Ditch Association
- Colorado River Water Conservation District

IRRIGATION PROJECTS

- Farmers Reservoir and Irrigation Company
- San Luis Valley Irrigation District
- Santa Maria Reservoir Company
- Costilla Land Company
- Uncompahgre Valley Water Users' Association
- Twin Lakes Reservoir and Canal Company
- Trinchera Irrigation Co.

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- Aspen Skiing Corp.
- Colorado Fuel and Iron Corp.
- Climax Molybdenum Corp.
- Lake Eldora Corp.
- Vail Associates, Incorporated
- Vermejo Park Corp. (NM)
- Taylor Lumber and Land Company

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- Moreno Ranch, New Mexico

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